

What is claimed is:

5.6 A. }
1. A camera assembly for use in scanning a paper substrate of a printing press, said assembly comprising:

5
a housing;
a camera mounted within said housing;
a light source mounted within said housing; and
two mirrors positioned within said housing to direct light in two distinct paths from said light source to the paper substrate.

10
2. The camera assembly of claim 1 wherein said camera is a CCD type camera.

15
3. The camera assembly of claim 1 wherein said light source is a strobe type light source.

20
4. The camera assembly of claim 1 wherein at least one of said mirrors is flat.

25
5. The camera assembly of claim 1 wherein said mirrors are positioned on each side of said light source.

30
6. A lighting assembly for lighting a paper substrate of a printing press, said assembly comprising:

a light source; and
at least one mirror positioned adjacent said light source to direct light from said light source to the paper substrate.

7. The lighting assembly of claim 6 wherein said light source is a strobe type light source.

8. The lighting assembly of claim 7 wherein said strobe type light source is a Xenon strobe bulb.

5 9. The lighting assembly of claim 6 wherein said at least one mirror is flat.

10 10. The lighting assembly of claim 6 wherein said at least one mirror is two mirrors.

10 11. The lighting assembly of claim 10 wherein said mirrors are positioned within said assembly to direct light from two different directions from the light source to the paper substrate.

15 12. A lighting assembly for a camera positioned adjacent a paper substrate of a printing press, said assembly comprising:

a strobe light source; and

two mirrors positioned adjacent said light assembly to direct light in two distinct paths from said light source to the paper substrate.

20 13. A method of creating a dual light paths directed toward a paper substrate of a printing press, said method comprising:

supplying a light source;

supplying two mirrors; and

25 positioning said mirrors adjacent said light source such that light from said light source strikes said mirrors and light is redirected in a dual light paths toward the paper substrate.

30 14. The method of claim 13 wherein said light source includes a strobe bulb.

15. The method of claim 13 wherein said mirrors are flat.

16. The method of claim 13 wherein each light path has an illumination intensity that is substantially the same.

17. A method for creating dual light paths of uniform illumination directed toward a paper substrate of a printing press, said method comprising:
supplying a single light source; and
positioning at least two mirrors adjacent said light source such that light from said light source is split into dual light paths of uniform illumination and directed toward the substrate by said mirrors.

18. The method of claim 17 wherein said light source is of the strobe type.

19. The method of claim 17 wherein said at least two mirrors is two mirrors.

20. The method of claim 17 wherein at least one of said at least two mirrors is flat.

10072276-020602